IN THE CLAIMS:

Kindly replace Claims 3, 4, and 7 to 11 as follows:

A1

3. (Amended) A method according to claim 1, wherein said magnetic field has a field strength of 1 mT.

4. (Amended) A method according to claim 1, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.

A2

7. (Amended) A method according to claim 1, wherein said bioparticles are selected from the group comprising DNA molecules, RNA molecules, proteins, other biopolymers, peptides, chemical preparations, organic compounds, inorganic compounds or synthetic polymers or combinations thereof.

8. (Amended) A method according to claim 1, wherein said biological membrane-enveloped structures are selected from the group consisting of body tissues, cells, bacteria, virus particles, organelles at a subcellular level, liposomes or proteins.

9. (Amended) A method according to claim 1, for use for specific lysis of cells.

10. (Amended) A method according to claim 1, for use for modifying the genetic code of a host cell and/or metabolism.

A2

11. (Amended) A device for performing the method as defined in claim 1, comprising at least one coil for generating a magnetic alternating field, optionally, a thermostat for accurate temperature control of said at least one coil, a means for variable and accurate timing control of the time during which said alternating current is on and during which a sample to be treated is exposed to said applied magnetic field, and control system for accurate setting of strength and frequency of said alternating current.

Please add the following new Claims 12 to 20:

14 12. (New) A method according to claim 2, wherein said magnetic field has a field strength of 1 mT.

A3

15 13. (New) A method according to claim 2, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.

14. (New) A method according to claim 3, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.

15. (New) A method according to claim 12, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.

16. (New) A method according to claim 2, wherein said bioparticles are selected from the group comprising DNA molecules, RNA molecules, proteins, other biopolymers, peptides, chemical preparations, organic compounds, inorganic compounds or synthetic polymers or combinations thereof.

17. (New) A method according to claim 2, wherein said biological membrane-enveloped structures are selected from the group consisting of body tissues, cells, bacteria, virus particles, organelles at a subcellular level, liposomes or proteins.

18. (New) A method according to claim 2, for use for specific lysis of cells.

19. (New) A method according to claim 2, for use for modifying the genetic code of a host cell and/or metabolism.

20. (New) A device for performing the method as defined in claim 2, comprising at least one coil for generating a magnetic alternating field, optionally, a thermostat for accurate temperature control of said at least one coil, a means for variable and accurate timing control of the time during which said alternating current is on and during which a sample to be treated is exposed to said applied magnetic field, and control system for accurate setting of strength and frequency of said alternating current.